Math Problem

To find the value of f(-2 - g(3)) , we first need to evaluate g(3) .

Given:

$$g(x) = x^2 - 3$$

we can substitute x = 3 :

$$g(3) = 3^2 - 3 = 9 - 3 = 6$$

Next, we calculate -2 - g(3) :

$$-2 - g(3) = -2 - 6 = -8$$

Now we need to find f(-8) using the function f(x) :

$$f(x) = frac{3}{4}x + 10$$

Substituting x = -8 :

$$f(-8) = frac{3}{4}(-8) + 10 = -6 + 10 = 4$$

Thus, the value of f(-2 - g(3)) is:

$$boxed{4}$$